

## CLAIMS

1. A DNA containing a base sequence encoding an amino acid sequence represented by SEQ ID NO:4 or <sup>5</sup>5 in Sequence Listing, which optionally has partial replacement, deletion or addition,  
5 or a base sequence hybridizable therewith.
2. A recombinant vector containing a DNA as claimed in Claim 1.
3. Prokaryotic or eukaryotic host cells transformed by a recombinant vector as claimed in Claim 2.
- 10 4. A process for producing a recombinant protein which comprises incubating host cells as claimed in Claim 3 and isolating and purifying the protein thus produced.
5. A process for producing a recombinant protein as claimed in Claim 4, wherein said recombinant protein is one having  
15 an actin filament-severing activity.
6. A recombinant adseverin protein isolated and purified from the culture supernatant obtained by incubating host cells as claimed in Claim 3.
7. An oligonucleotide hybridizable specifically with  
20 a base sequence encoding an amino acid sequence represented by SEQ ID NO:4 or <sup>6</sup>5 in Sequence Listing.
8. A method for regulating the formation of adseverin in an animal comprising administering an oligonucleotide, which is hybridizable specifically with a base sequence encoding  
25 an amino acid sequence represented by SEQ ID NO:4 or <sup>6</sup>5 in Sequence Listing, to the animal.
9. An antibody capable of recognizing adseverin protein.